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[Primary Antibody]

Rabbit Anti-phospho-Girdin (Ser1417)antibody

Catalog Number: SL6465R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	phospho-Girdin (Ser1417)
Immunogen:	KLH conjugated synthesised phosphopeptide derived from human APE around the phosphorylation site of Ser1417: QK(p-S)LT
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 Flow-Cyt=1ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse)
Predicted MW.:	206kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	Plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation. Enhances phosphoinositide 3-kinase (PI3K)-dependent phosphorylation and kinase activity of AKT1/PKB, but does not possess kinase activity itself. Phosphorylation of AKT1/PKB thereby induces the phosphorylation of downstream effectors GSK3 and FOXO1/FKHR, and regulates DNA replication and cell proliferation (By similarity). Essential for the integrity of the actin cytoskeleton and for cell migration. Required for formation of actin stress fibers and lamellipodia. May be involved in membrane sorting in the early endosome. **Function:** Plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration

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	during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation. Enhances phosphoinositide 3-kinase (PI3K)-dependent phosphorylation and kinase activity of AKT1/PKB, but does not possess kinase activity itself. Phosphorylation of AKT1/PKB thereby induces the phosphorylation of downstream effectors GSK3 and FOXO1/FKHR, and regulates DNA replication and cell proliferation. Essential for the integrity of the actin cytoskeleton and for cell migration. Required for formation of actin stress fibers and lamellipodia. May be involved in membrane sorting in the early endosome. **Subunit:** Interacts (via C-terminus) with DISC1; the interaction is direct. Interacts with AKT proteins; the interaction is inhibited in presence of DISC1. Homodimer. The non-phosphorylated form interacts with phosphatidylinositol 4-phosphate [PI(4)P] and weakly with phosphatidylinositol 3-phosphate [PI(3)P]. Interacts with microtubules. Interacts with actin through its C-terminal domain. Interacts with the C-terminus of AKT1/PKB. **Subcellular Location:** Membrane. Cell membrane. Cytoplasm, cytosol. Cytoplasmic vesicle. Cell projection, lamellipodium. Note=Localizes to the cell membrane through interaction with phosphoinositides. **Tissue Specificity:** Expressed ubiquitously. **Post-translational modifications:** Phosphorylation is induced by epidermal growth factor (EGF) in a phosphoinositide 3-kinase (PI3K)-dependent manner. Phosphorylation by AKT1/PKB is necessary for the delocalization from the cell membrane and for cell migration. **Similarity:** Belongs to the CCDC88 family. **Database links:** **Entrez Gene:** 55704 Human **Entrez Gene:** 108686 Mouse **Entrez Gene:** 305605 Rat **SwissProt:** Q3V6T2 Human **SwissProt:** Q5SNZ0 Mouse

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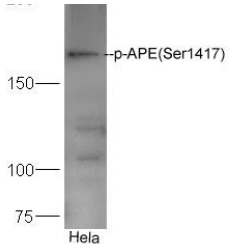
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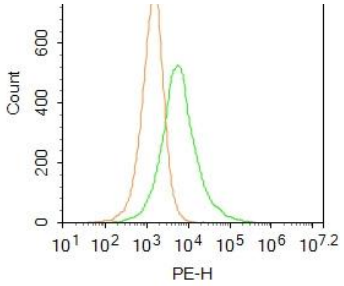
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[VALIDATION IMAGES]





Sample: Hela Cell (Human) Lysate at 40 ug
Primary: Anti-phospho-APE(Ser1417) (SL6465R) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0295G-HRP) at 1/5000 dilution
Predicted band size: 206 kD
Observed band size: 206 kD

Blank control: Hela.
Primary Antibody (green line): Rabbit Anti-phospho-APE(Ser1417) antibody (SL6465R)
Dilution: 1μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 1μg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 20% PBST for 20 min atroom temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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